	Document ID	Issue Date	Title	Current OR	Inventor
1	US 6823478 B1	20041123	System and method for automating the testing of software processing environment changes	714/38	Prologo; Richard D. et al.
2	US 6810395 B1	20041026	Method and apparatus for query-specific bookmarking and data collection	707/4	Bharat; Krishna A.
3	US 6744729 B2	20040601	Intelligent fabric	370/229	Tinsley; David et al.

	Document ID	Issue Date	Title	Current OR	Inventor
20	US 6681370 B2	20040120	HTML/XML tree synchronization	715/513	Gounares; Alexander G. et al.

	Document ID	Issue Date	Title	Current OR	Inventor
1	US 6839747 B1	20050104	User interface for managing storage in a storage system coupled to a network	709/223	Blumenau; Steve et al.
2	US 6665714 B1	20031216	Method and apparatus for determining an identity of a network device	709/222	Blumenau; Steve et al.
3	US 6606604 B1	20030812	Incremental updates of items and prices on a customer's computer to reduce download times for frequently purchased items in e-commerce transactions in a method, system and program	705/26	Dutta; Rabindranath
4	US 6578030 B1	20030610	Method and apparatus for mapping one catalog into another catalog	707/3	Wilmsen; James Michael et al.
5	US 6529908 B1	20030304	Web-updated database with record distribution by email	707/10	Piett; Derrick Ronald et al.

	Document ID	Issue Date	Title	Current OR	Inventor
6	US 6061660 A	20000509	System and method for incentive programs and award fulfillment	705/14	Eggleston; York et al.
7	NNRD428115	19991201	Dynamic Tree View in a Browser-Based Environment		

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1 Document Databases: Requirements for XML document database systems

Airi Salminen, Frank Wm. Tompa

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available: pdf(141.89 KB) Additional Information: full citation, abstract, references, citings, index terms

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...

Keywords: XML, XML database systems, data definition, data manipulation, data modelling, structured documents

2 A fine-grained access control system for XML documents

Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati

May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Full text available: pdf(330.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

3 Document querying and transformation: A three-way merge for XML documents

Tancred Lindholm

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(500.99 KB) Additional Information: full citation, abstract, references, index terms

Three-way merging is a technique that may be employed for reintegrating changes to a

document in cases where multiple independently modified copies have been made. While tools for three-way merge of ASCII text files exist in the form of the ubiquitous diff and patch tools these are of limited applicability to XML documents.

We present a method for three-way merging of XML which is targeted at merging XML formats that model human-authored documents as ordered trees (e.g. rich text forma ...

Keywords: XML, collaborative editing, conflict, structured text, three-way merge

4 XML access control: Access control of XML documents considering update operations

Chung-Hwan Lim, Seog Park, Sang H. Son

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Full text available: pdf(298.78 KB) Additional Information: full citation, abstract, references, index terms

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML acces ...

Keywords: XML document, XML update, access control

5 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

6 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

7 Information delivery systems: an exploration of Web pull and push technologies

Julie E. Kendall, Kenneth E. Kendall

April 1999 **Communications of the AIS**

Full text available: pdf(658.33 KB) Additional Information: full citation, references, citings, index terms

8 Document creation II: Techniques for authoring complex XML documents

Vincent Quint, Irône Vatton

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(265.88 KB) Additional Information: full citation, abstract, references, index terms

This paper reviews the main innovations of XML and considers their impact on the editing techniques for structured documents. Namespaces open the way to compound documents; well-formedness brings more freedom in the editing task; CSS allows style to be associated easily with structured documents. In addition to these innovative features the wide deployment of XML introduces structured documents in many new applications including applications where text is not the dominant content type. In lan ...

Keywords: CSS, XML, authoring tools, compound documents, direct manipulation, structured editing, style languages

9 A semantic network-based design methodology for XML documents

Ling Feng, Elizabeth Chang, Tharam Dillon

October 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 4

Full text available: pdf(285.64 KB) Additional Information: full citation, abstract, references, citings, index terms

The eXtensible Markup Language (XML) is fast emerging as the dominant standard for describing and interchanging data among various systems and databases on the Internet. It offers the Document Type Definition (DTD) as a formalism for defining the syntax and structure of XML documents. The XML Schema definition language, as a replacement for the DTD, provides more rich facilities for defining and constraining the content of XML documents. However, it does not concentrate on the semantics that und ...

Keywords: XML, XML Schema, conceptual modeling, design methodology, semantic network

10 XRel: a path-based approach to storage and retrieval of XML documents using relational databases

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available: pdf(264.27 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables according to the node type, with path information from the root to each node. XRel enables us to store XML documents using a fixed relational schema without any information about DTDs and also to utilize indices such as the B+

Keywords: XML query, XPath, text markup, text tagging

11 Implementing catalog clearinghouses with XML and XSL

Andrew V. Royappa

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(753.90 KB) Additional Information: full citation, references, citings, index terms

Keywords: SGML, XML, XSL, e-commerce

12 Dynamic views of SGML tagged documents

B. Fraser, J. Roberts, G. Pianosi, P. Alencar, D. Cowan, D. German, L. Nova
October 1999 **Proceedings of the 17th annual international conference on Computer documentation**

Full text available: pdf(818.10 KB) Additional Information: full citation, abstract, references, citings, index terms

Product information is more frequently being delivered as hypertext webs or documents because of the availability of the World-Wide Web and the associated communications infrastructure. However, this type of document with its large number of files and hyperlinks can become very complex and present significant usability problems for the creator, maintainer and user. Because of this complexity it becomes extremely difficult to implement and maintain dynamic views of a document, a supposed adv ...

Keywords: SGML, SQL, World-Wide Web, XML, documentation, dynamic views, hyperlinks, relational databases, tagging languages, usability

13 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: pdf(316.85 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

14 XML access control: A bitmap-based access control for restricted views of XML documents

Abhilash Gummadi, Jong P. Yoon, Biren Shah, Vijay Raghavan
October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Full text available: pdf(268.58 KB) Additional Information: full citation, abstract, references, index terms

The information on the web is growing at a very fast pace. In this ever-accumulating data, the volume of information represented in XML format is on the rise in recent times. An organization that puts forth its information on the web in XML format has several issues to take into account such as limiting the view of intended audience to only relevant portions of the documents. To address this problem, we propose the concept of "Restricted views" to implement security in XML documents. This could ...

Keywords: XML, access control, bitmap, restricted views, security, security cube

15 Interactive mathematics via the Web using MathML

Francis J. Wright
June 2000 **ACM SIGSAM Bulletin**, Volume 34 Issue 2

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, index terms

MathML is a mathematical markup language intended for displaying mathematics in web browsers. At present, it can be used to display mathematics generated dynamically in response to interactive queries only if the browsing and generating facilities are chosen carefully. This paper examines the background and possible options, and describes some of the details of the use of MathML to display the output from a web-based demonstration of an ordinary differential equation solver running in REDUCE ...

16 Managing the software design documents with XML

Junichi Suzuki, Yoshikazu Yamamoto

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

Keywords: CASE data interchange, UML, XML, software model interchange

17 An intelligent distributed environment for active learning

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(116.71 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Active learning is an effective learning approach. In this article we present an intelligent agent-assisted environment for active learning to better support the student-centered, selfpaced, and highly interactive learning approach. The environment uses the students learningrelated profile such as learning style and background knowledge in selecting, organizing, and presenting learning material, and it adopts a new approach to course content organization and delivery based on smart instruct ...

Keywords: XML, active learning, multiagent system, web-based education

18 Contributed articles: Resource description framework: metadata and its applications

K. Selçuk Candan, Huan Liu, Reshma Suvarna

July 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

Universality, the property of the Web that makes it the largest data and information source in the world, is also the property behind the lack of a uniform organization scheme that would allow easy access to data and information. A semantic web, wherein different applications and Web sites can exchange information and hence exploit Web data and information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

Keywords: Resource Description Framework (RDF), Web, XML, metadata, semantic web

19 Technology to enable learning I: SVG for educational simulations

Daniel S. Bogaard, Ronald P. Vullo, Christopher D. Cascioli

October 2004 **Proceedings of the 5th conference on Information technology education**

Full text available: pdf(234.58 KB) Additional Information: full citation, abstract, references, index terms

Helping students to understand complex ideas will always be problematic for teaching professionals. Often, the students can be limited by not only their imagination, but by their experiences. When trying to explain something that is outside of the students' imagination, it is often helpful to have either simple animations or even interactive simulations that the students can explore. The creation of interactive environments and the use of animation can greatly help educators get their point a ...

Keywords: animation, instructional software, scalable vector graphics, simulations



20 An intelligent distributed environment for active learning
Yi Shang, Hongchi Shi, Su-Shing Chen
April 2001 **Proceedings of the tenth international conference on World Wide Web**
Full text available: pdf(200.31 KB) Additional Information: full citation, references, citings, index terms

Keywords: XML, active learning, multi-agent system, web-based education

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21 Document querying and transformation: Lazy XSL transformations

Steffen Schott, Markus L. Noga
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(335.83 KB) Additional Information: full citation, abstract, references, index terms

We introduce a lazy XSLT interpreter that provides random access to the transformation result. This allows efficient pipelining of transformation sequences. Nodes of the result tree are computed only upon initial access. As these computations have limited fan-in, sparse output coverage propagates backwards through the pipeline.In comparative measurements with traditional eager implementations, our approach is on par for complete coverage and excels as coverage becomes sparser. In contrast to eag ...

22 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(188.65 KB) Additional Information: full citation, abstract, citings, index terms

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

Keywords: Declarative query languages, Web-site management

23 STOP: light on the history of outlining

Jonathan Price
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available: pdf(937.39 KB) Additional Information: full citation, index terms

24 Managing change on the web

Luis Francisco-Revilla, Frank Shipman, Richard Furuta, Unmil Karadkar, Avital Arora
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(274.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Increasingly, digital libraries are being defined that collect pointers to World-Wide Web based resources rather than hold the resources themselves. Maintaining these collections is challenging due to distributed document ownership and high fluidity. Typically a collections maintainer has to assess the relevance of changes with little system aid. In this paper, we describe the Waldens Paths Path Manager, which assists a maintainer in discovering when relevant changes occur to linked resour ...

Keywords: Walden's path, path maintenance

25 XML indexing and compression: D(k)-index: an adaptive structural summary for graph-structured data

Qun Chen, Andrew Lim, Kian Win Ong

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(217.30 KB) Additional Information: full citation, abstract, references, index terms

To facilitate queries over semi-structured data, various structural summaries have been proposed. Structural summaries are derived directly from the data and serve as indices for evaluating path expressions on semi-structured or XML data. We introduce the D(k) index, an adaptive structural summary for general graph structured documents. Building on previous work, 1-index and A(k) index, the D(k)-index is also based on the concept of bisimilarity. However, as a generalization of the 1-index and A ...

26 Evaluating the reverse engineering capabilities of Web tools for understanding site content and structure: a case study

Scott Tilley, Shihong Huang

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available: pdf(360.47 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

This paper describes an evaluation of the reverse engineering capabilities of three Web tools for understanding site content and structure. The evaluation is based on partitioning Web sites into three classes (static, interactive, and dynamic), and is structured using an existing reverse engineering environment framework (REEF). This case study also represents an initial evaluation of the applicability of the REEF in the related but qualitatively different domain of Web sites. The case stu ...

27 Re-engineering structures from Web documents

Chuang-Hue Moh, Ee-Peng Lim, Wee-Keong Ng

June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: pdf(180.95 KB) Additional Information: full citation, abstract, references, citings, index terms

To realize a wide range of applications (including digital libraries) on the Web, a more structured way of accessing the Web is required and such requirement can be facilitated by the use of XML standard. In this paper, we propose a general framework for reverse engineering (or re-engineering) the underlying structures i.e.,the DTD from a collection of similarly structured XML documents when they share some common but unknown DTDs. The essential data structures and algorithms for ...

Keywords: Web information discovery, XML

28 Research sessions: path indexing: APEX: an adaptive path index for XML data

Chin-Wan Chung, Jun-Ki Min, Kyuseok Shim

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

The emergence of the Web has increased interests in XML data. XML query languages such as XQuery and XPath use label paths to traverse the irregularly structured data. Without a structural summary and efficient indexes, query processing can be quite inefficient due to an exhaustive traversal on XML data. To overcome the inefficiency, several path indexes have been proposed in the research community. Traditional indexes generally record all label paths from the root element in XML data. Such path ...

29 Preserving mapping consistency under schema changes

Yannis Velegrakis, J. Miller, Lucian Popa

September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

Full text available: pdf(327.88 KB) Additional Information: full citation, abstract

In dynamic environments like the Web, data sources may change not only their data but also their schemas, their semantics, and their query capabilities. When a mapping is left inconsistent by a schema change, it has to be detected and updated. We present a novel framework and a tool (ToMAS) for automatically adapting (rewriting) mappings as schemas evolve. Our approach considers not only local changes to a schema but also changes that may affect and transform many components of a schema. Our alg ...

30 User interfaces and services: A web interface to image-based concurrent markup using image maps

Jerzy W. Jaromczyk, Miroslaw Kowaluk, Neil Moore

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Full text available: pdf(322.28 KB) Additional Information: full citation, abstract, references, index terms

Image-based electronic editions (IBEEs) encode manuscripts using markup based on digitized images of the manuscript page. Due to the complex nature of editorial annotations, the resulting markup rarely forms a hierarchical structure---that is, ranges often overlap. To support web-based access to these editions, it is desirable to synchronize the display of markup and related satellite data with the corresponding portions of the image. This goal can be supported by image maps, which associate ...

Keywords: client-side image maps, computational geometry, concurrent markup, image-based electronic editions, voronoi diagram

31 Secure and selective dissemination of XML documents

Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Full text available: pdf(678.34 KB) Additional Information: full citation, abstract, references, citings, index terms

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

32 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 6

Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

33 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(301.14 KB) Additional Information: full citation, abstract, references, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

34 Consistency and replication: XML three-way merge as a reconciliation engine for mobile data

Tancred Lindholm

September 2003 **Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access**

Full text available: pdf(128.03 KB) Additional Information: full citation, abstract, references, index terms

Optimistic replication approaches are often employed on mobile devices, which raises the need for reconciliation of concurrently modified data. We propose that three-way merging algorithms, in particular those that are able to process tree-structured data in XML format, make good candidates for a generic data reconciliation engine on mobile devices.By exchanging data through XML files we impose minimal constraints on application design and are able to offer reconciliation services to a large num ...

Keywords: XML, optimistic replication, reconciliation, three-way merge

35 Document reuse and semantics: Towards a semantics for XML markup

Allen Renear, David Dubin, C. M. Sperberg-McQueen

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Full text available: pdf(72.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Although XML Document Type Definitions provide a mechanism for specifying, in machine-readable form, the syntax of an XML markup language, there is no comparable mechanism for specifying the *semantics* of an XML vocabulary. That is, there is no way to characterize the meaning of XML markup so that the facts and relationships represented by the occurrence of XML constructs can be explicitly, comprehensively, and mechanically identified. This has serious practical and theoretical consequence ...

Keywords: SGML, XML, knowledge representation, markup, semantics

36 Innovative Document Systems: TabulaMagica: an integrated approach to manage complex tables
Horst Silberhorn
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Full text available: pdf(138.97 KB) Additional Information: full citation, abstract, references, index terms

Tables are a special part of documents and specific means have been developed to manage them. Step by step, the underlying models to edit and format tables have been improved or supplemented by new ones. These models led to a wide variety of table formats and produced "tabular legacies", making it difficult to edit, use, or modify tables in varying formats. It is even more time-consuming to convert them for various media or to unify or compare tabular information. Our approach to tackle these pr ...

Keywords: WYSIWYG editor, separation of structure and presentation, table processing, tabular legacies

37 Component selection and matching for IP-based design
G. Martin, R. Seepold, T. Zhang, L. Benini, G. De Micheli
March 2001 **Proceedings of the conference on Design, automation and test in Europe**
Full text available: pdf(170.22 KB) Additional Information: full citation, references, index terms

38 Implementing incremental code migration with XML
Wolfgang Emmerich, Cecilia Mascolo, Anthony Finkelstein
June 2000 **Proceedings of the 22nd international conference on Software engineering**
Full text available: pdf(124.85 KB) Additional Information: full citation, abstract, references, citings, index terms

We demonstrate how XML and related technologies can be used for code mobility at any granularity, thus overcoming the restrictions of existing approaches. By not fixing a particular granularity for mobile code, we enable complete programs as well as individual lines of code to be sent across the network. We define the concept of incremental code mobility as the ability to migrate and add, remove, or replace code fragments (i.e., increments) in a remote program. The combination of fine-grain ...

Keywords: XML technologies, incremental code migration

39 Hypermedia semantics: Which semantic web?
Catherine C. Marshall, Frank M. Shipman
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**
Full text available: pdf(329.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Through scenarios in the popular press and technical papers in the research literature, the promise of the Semantic Web has raised a number of different expectations. These expectations can be traced to three different perspectives on the Semantic Web. The Semantic Web is portrayed as: (1) a universal library, to be readily accessed and used by humans in a variety of information use contexts; (2) the backdrop for the work of computational agents completing sophisticated activities on behalf of t ...

Keywords: digital libraries, hypertext, information systems, knowledge acquisition,

knowledge representation, semantic web

40 Structured document storage and refined declarative and navigational access mechanisms in HyperStorM



Klemens Böhm, Karl Aberer, Erich J. Neuhold, Xiaoya Yang
November 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 4
Full text available: pdf(184.18 KB) Additional Information: full citation, abstract, index terms

The combination of SGML and database technology allows to refine both declarative and navigational access mechanisms for structured document collection: with regard to declarative access, the user can formulate complex information needs without knowing a query language, the respective document type definition (DTD) or the underlying modelling. Navigational access is eased by hyperlink-rendition mechanisms going beyond plain link-integrity checking. With our approach, the database-internal repres ...

Keywords: Document query languages, Navigation, OODBMSs, SGML

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41 Effective compression for the web: exploiting document linkages

Raymond Wan, Alistair Moffat

January 2001 **Proceedings of the 12th Australasian conference on Database technologies**

Full text available: pdf(844.81 KB) Publisher Site

Additional Information: full citation, abstract, references, index terms

Providing the infrastructure that supports the WorM-Wide Web is expensive. The costs incurred in running a web site include those associated with the content being served; those associated with the hardware that supports the site; and the network costs incurred in transmitting that content to the end consumers. In this work we examine mechanisms for compressing web content so as to reduce the third of these three costs, and describe a scheme that exploits the known connectivities between web pag ...

42 Innovative Document Systems: The multivalent browser: a platform for new ideas

Thomas A. Phelps, Robert Wilensky

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available: pdf(188.51 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Multivalent Browser is built on a architecture that separates functionality from concrete document format. Almost all functionality is made available via relatively small modules of code called behaviors that programmers can write to extend the core system. Behaviors can be as significant and powerful as parser-renderers for scanned paper, HTML, or TeX DVI; as fine-grained as hyperlinks, cookies, and the disabling of menu items; and as innovative or uncommon as in situ annotatins, "lenses", ...

Keywords: annotation, architecture, digital, document, multivalent behavior, paper, scanned

43 Efficient filtering of XML documents with XPath expressions

C.-Y. Chan, P. Felber, M. Garofalakis, R. Rastogi

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Full text available: pdf(383.34 KB) Additional Information: full citation, abstract, index terms

The publish/subscribe paradigm is a popular model for allowing publishers (i.e., data generators) to selectively disseminate data to a large number of widely dispersed subscribers (i.e., data consumers) who have registered their interest in specific information

items. Early publish/subscribe systems have typically relied on simple subscription mechanisms, such as keyword or "bag of words" matching, or simple comparison predicates on attribute values. The emergence of XML as a standar ...

Keywords: Data dissemination, Document filtering, Index structure, XML, XPath

44 Integrating and customizing heterogeneous e-commerce applications

Anat Eyal, Tova Milo

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: pdf(286.63 KB) Additional Information: full citation, abstract, index terms

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

45 The other formalization of law: SGML modelling and tagging

Daniel Poulin, Guy Huard, Alain Lavoie

June 1997 **Proceedings of the sixth international conference on Artificial intelligence and law**

Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

Keywords: SGML, information searching, intelligent law information systems, law information systems

46 A programmable editor for developing structured documents based on bidirectional transformations

Zhenjiang Hu, Shin-Cheng Mu, Masato Takeichi

August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: pdf(397.19 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel editor supporting interactive refinement in the development of structured documents. The user performs a sequence of editing operations on the document view, and the editor automatically derives an efficient and reliable document source and a transformation that produces the document view. The editor is unique in its programmability, in the sense that the transformation can be obtained through editing operations. The main tricks behind are the utilization of the view- ...

Keywords: bidirectional transformation, document engineering, editor, functional programming, view updating

47 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a

difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

48 Modeling methodology b: XML-based modeling and simulation: using XML for simulation modeling

Paul A. Fishwick

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: pdf(203.09 KB) Additional Information: full citation, abstract, references

XML represents a new way of organizing information and knowledge of the World Wide Web, using markup languages. Whereas HTML is used for presentation-specific content, XML builds upon its SGML lineage to separate content from presentation, and provide a semantic labeling for elements that comprise a document. With XML, the concept of "document" is broadened to include an encapsulation of information and knowledge, and not only a flat medium. This suggests that XML can be used for model specif ...

49 P7: Open-source documentation: in search of user-driven, just-in-time writing

Erik Berglund, Michael Priestley

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: pdf(228.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Iterative development models allow developers to respond quickly to changing user requirements, but place increasing demands on writers who must handle increasing amounts of change with ever-decreasing resources. In the software development world, one solution to this problem is open-source development: allowing the users to set requirements and priorities by actually contributing to the development of the software. This results in just-in-time software improvements that are explicitly user-driv ...

50 XIRQL: An XML query language based on information retrieval concepts

Norbert Fuhr, Kai Großjohann

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: pdf(281.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

51 Complete answer aggregates for treelike databases: a novel approach to combine querying and navigation

Holger Meuss, Klaus U. Schulz

April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(356.60 KB) terms

The use of markup languages like SGML, HTML or XML for encoding the strucutre of documents or linguistic data has lead to many databases where entries are adequately described as trees. In this context querying formalisms are interesting that offer the possiblity to refer both to textual content and logical structure. We consider models where the strucutre specified in a query is not only used as a filter, but also for selecting and presenting different parts of the data. If answers are formaliz ...

Keywords: SGML, XML, answer presentation, information retrieval, logic, query languages, semistructured data, structured documents, tree databases, tree matching

52 Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Full text available: pdf(745.61 KB) Additional Information: full citation, abstract, references, index terms

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierachical format and has a key structure that provides a canonical identification for each element of the hierarchy. In this article, we exploit these properties to develop an archiving technique that is both efficient in its use of space and preserves the continuity of elements through versions ...

Keywords: Keys for XML

53 Education and training: An XML-based approach to multimedia software engineering for distance learning

T. Arndt, S. K. Chang, A. Guercio, P. Maresca

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available: pdf(95.53 KB) Additional Information: full citation, abstract, references

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

54 Editing and authoring: A structural adviser for the XML document authoring

Boris Chidlovskii

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(207.56 KB) Additional Information: full citation, abstract, references, index terms

Since the XML format became a *de facto* standard for structured documents, the IT research and industry have developed a number of XML editors to help users produce structured documents in XML format. However, the manual generation of structured documents in XML format remains a tedious and time-consuming process because of the excessive verbosity and length of XML code. In this paper, we design a structural adviser for the XML document authoring. The adviser intervenes at any step of the ...

Keywords: XML markup, data mining, structural pattern, suggestion

55 Multipurpose Web publishing using HTML, XML, and CSS

Håkon Wium Lie, Janne Saarela

October 1999

Communications of the ACM, Volume 42 Issue 10

Full text available: pdf(534.90 KB) html(31.20 KB) Additional Information: full citation, references, citings, index terms

56 Rhetoric of present single-sourcing methodologies

Dave Clark

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(198.53 KB) Additional Information: full citation, abstract, references, index terms

In this paper, I detail what Bill Hart-Davidson describes as the "anxiety" that many technical communicators have about implementations of single source documentation. Specifically, I briefly explore what I see as some of the key potential rhetorical problems with single sourcing, in part by drawing on real-world examples gathered from conversations with and shadowing of technical communicators in their workplaces. I address the following potential objections that we need to handle in pragmatic ...

Keywords: documentation, single source, text reuse, theory

57 Path sharing and predicate evaluation for high-performance XML filtering

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(543.40 KB) Additional Information: full citation, abstract, references, index terms

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

58 Hypertext versioning: The molhado hypertext versioning system

Tien N. Nguyen, Ethan V. Munson, John T. Boyland

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available: pdf(943.36 KB) Additional Information: full citation, abstract, references, index terms

This paper describes *Molhado*, a hypertext versioning and software configuration management system that is distinguished from previous systems by its flexible product versioning and structural configuration management model. The model enables a unified versioning framework for atomic and composite software artifacts, and hypermedia structures among them in a fine-grained manner at the logical level. Hypermedia structures are managed separately from documents' contents. Molhado explicitly r ...

Keywords: hypertext versioning, software configuration management, software engineering, version control

59 A Web Odyssey: from Codd to XML

Victor Vianu

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(282.10 KB) Additional Information: full citation, references, citings, index terms

60 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz
March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Full text available: pdf(365.68 KB) Additional Information: full citation, abstract, references, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

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